MCOG Application Note 9:
Requirement 1-of-1 Applied to Healthcare AIoT and Medical Devices
Version 1.0 – July 2026 – Creative Commons CC BY 4.0

1. Purpose

This Application Note demonstrates how the Moral Covenant of Governance (MCOG) Requirement 1-of-1 can be applied to Healthcare AIoT systems and medical devices while preserving the framework's technology-agnostic nature.

2. Requirement 1-of-1 (Full Recap)

Requirement 1-of-1 is the single, essential standard at the heart of the Moral Covenant of Governance (MCOG). Its key innovation is that compliance creates an **auditable system state** — not a metaphysical wish list.

Any system of governance that seeks to prevent tyranny and support sustainable liberty **MUST** be in full compliance with the three universal moral pillars — Adherence to the Golden Rule/Reciprocity, Protection of the Commons/Stewardship, and Securing of Unalienable Rights — as the necessary and sufficient condition for a sustained Virtuous Cycle of Liberty. This is achieved through the operationalization of the pillars via a modest body of derivative positive law (or system guardrails) that is generated from, tested against, and kept perpetually compliant with those pillars.

3. Mapping the Three Pillars to Healthcare AIoT

- **Golden Rule / Reciprocity**: Do AI-driven diagnostic or treatment systems treat patients in ways clinicians and developers would accept if roles were reversed?
- **Protection of the Commons / Stewardship**: Are shared medical data resources and infrastructure managed sustainably and equitably, or are they being plundered through excessive commercialization?
- **Securing of Unalienable Rights**: Do systems preserve patient agency, privacy, informed consent, and the ability to override automated decisions? Do they avoid discriminatory outcomes or erosion of human clinical judgment?

4. Functional Interface

Healthcare AIoT platforms and medical devices should provide the Three-Pillar Compliance Filter with:

- Clinical or operational objectives
- Relevant patient and device telemetry data
- Proposed automated diagnoses, treatments, or configuration changes

The Filter returns:

- Compliance decision (Permit / Deny / Modify)
- ROLIS/ROTIS impact assessment
- Recommended adjustments

This interface can be implemented as a safety-critical middleware or audit layer.

5. Examples

- **Remote Patient Monitoring**: An AIoT wearable continuously collects and shares detailed biometric data with third parties for monetization. **Filter Outcome**: Violation of Pillar 3 (privacy and consent erosion) and Pillar 2 (data commons plunder). Recommendation: Strong opt-in consent and minimal data sharing.
- **AI-Assisted Diagnostic Systems**: An AI model prioritizes certain patient profiles based on proprietary or biased training data. **Filter Outcome**: Violation of Pillar 1 (asymmetry) and Pillar 3 (potential discrimination). Recommendation: Require transparent model auditing and bias mitigation.

6. Benefits and Implementation Guidance

Requirement 1-of-1 helps create trustworthy medical AIoT systems, reduces patient safety and privacy risks, supports regulatory compliance (e.g., HIPAA, FDA), and builds clinician and patient confidence. Organizations can begin with design-time ethical reviews and evolve toward real-time clinical guardrails.

Future Work: Integration with medical device standards and clinical trial validation.

Document Availability

The full technical specification, logic proofs, and structural taxonomies are published under Creative Commons licensing as a public-domain Request for Comments (RFC).

- ***Open Standard for the Identification and Prevention of Tyrannical Governance: The Moral Covenant of Governance (MCOG) — Requirement 1-of-1, May 2026; Free download:*** *https://archive.org/details/open-standard-mcog-req-1-of-1-v-01*
- ***Addendum A: The Three-Pillar Compliance Filter — Functional Specification and Examples, to Open Standard for the Identification and Prevention of Tyrannical Governance: The Moral Covenant of Governance (MCOG) — Requirement 1-of-1, July 2026; Free Downloads:*** *https://archive.org/details/open-standard-mcog-req-1-of-1-addendum-a-v-01*
- **The full MCOG body of work, including all application notes, are available for Free Downloads here:** https://archive.org/details/@michael_fargano/uploads
- **Authorship:** *Michael Fargano, Grok (build by xAI), Gemini (built by Google) | Creative Commons CC BY 4.0*

"Power without moral anchors eventually corrupts. Requirement 1-of-1 is that anchor."